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Nov 1, 1985

DERWENT-ACC-NO: 1985-313657

DERWENT-WEEK: 198550

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TITLE: Pretreatment for annealing cold-rolled stainless steel strip - involves applying sodium or calcium hydroxide aq. soln. after decreasing

PATENT-ASSIGNEE:

ASSIGNEE

CODE

KAWASAKI STEEL CORP

KAWI

PRIORITY-DATA: 1984JP-0074406 (April 13, 1984)

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PATENT-FAMILY:

	PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
<input type="checkbox"/>	JP 60218429 A	November 1, 1985		005	
<input type="checkbox"/>	JP 92047011 B	July 31, 1992		005	C21D009/52

APPLICATION-DATA:

PUB-NO	APPL-DATE	APPL-NO	DESCRIPTOR
JP 92047011B	April 13, 1984	1984JP-0074406	
JP 92047011B		JP 60218429	Based on

INT-CL (IPC): C21D 1/70; C21D 1/72; C21D 9/52; C23F 11/00

ABSTRACTED-PUB-NO: JP 60218429A

BASIC-ABSTRACT:

After cold-rolling, the surface of steel strip is degreased and NaOH or Ca(OH)₂ aq. soln. adjusted to pH 9-13 is successively applied to the surface before continuous annealing and descaling.

USE/ADVANTAGE - Esp. for the treatment of ferrite stainless steel. By applying NaOH or Ca(OH)₂ aq. soln., scaling of the strip is suppressed during annealing. Efficiency of descaling is improved, productivity is greatly enhanced and descaling costs decreased.

In an example, a test piece taken from cold-rolled ferrite stainless steel strip (SUS 430) 1 mm thick was degreased with alkali degreasing agent contg. ortho-sodium silicate and dipped into Ca(OH)₂ aq. soln. adjusted to pH 12. The test piece was then annealed in an atmos. consisting of 5 vol.% O₂, 9 vol.% CO₂ and the balance N₂ at 850 deg.C for 3 min. The oxidn. increase was 70 mg/sq.m.